

1980 COMMERCIAL VEGETABLE

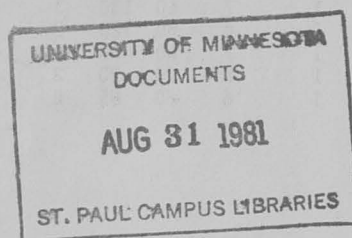
Variety Trial Report - Tomatoes

Luther Waters, Jr.; David K. Wildung; Wesley H. Gray; James B. Hebel; Bonnie L. Blanchette; Mark A. Bennett; John Lange



Tomato variety trials were conducted in Minnesota at five locations during the 1980 growing season: Becker, Grand Rapids, Morris, Waseca, and the Horticulture Research Center in Excelsior. Bordered observational and replicated studies were conducted using the varieties listed below. Plots consisted of a single row 18 feet long, with 5 or 6 feet between rows and 3 feet between plants. The entire plot was used for collection of data. Individual researchers were responsible for providing cultural practices (weed, insect, and disease control and fertilization) that simulate standard commercial conditions in their locations.

Ratings are judgments of individual researchers and should be used only to compare varieties within a location. Yields should be used only to compare varieties, since commercial yields can be expected to be somewhat different.



TOMATO VARIETIES TESTED

Variety	Source
Basket Vee	Stokes
Blazer	Niagara (FMC)
Castleky 101	Castle
Castleky 105	Castle
Castlex 1035	Castle
Castlex 1036	Castle
Cherry Grondo	Petoseed
Duchess	Petoseed
Duke	Petoseed
Earlrouge	Stokes
Early Cascade	Petoseed
Early Girl	Ball
Full House	Ferry Morse
Heinz 1350	Northrup King
Hybrid #9	Dessert
Hybrid #10	Dessert
Hybrid #31	Petoseed
Hybrid #980	Agway
Jackpot	Ferry Morse
Jet Star	Harris
Juice VF	Ball
Moreton	Harris
NCX 3061	Niagara (FMC)
Pik-Red	Harris
Red Super	Agway
Roadside Red	Agway
Setmore	Harris
Springset	Harris
Supersonic	Harris
Sunlight	Dessert
Sweetie	Petoseed
Westover	Castle
R 2291	Ohlsens Enke
R 2350	Ohlsens Enke
Hotset F1	Ohlsens Enke
Flora-Dade	Northrup King
Overpack F1	Clause
Fusor F1	Clause
Quick Pick	Goldsmith
Little King	Goldsmith
GS-531	Goldsmith
Big Pick	Goldsmith

TABLE HEADING INFORMATION

Maturity Date — date of first harvest

Fruit Shape — 1-7 rating (1 = round, 2 = slightly flattened, 3 = deeply flattened, 4 = oval, 5 = cherry, 6 = pear, 7 = elongate)

Fruit Crax — 1-4 rating for cracking (1 = none, 2 = concentric, 3 = radial, 4 = both concentric and radial)

Fruit Grn. Sh. — green shoulder (1 = none, 2 = present)

Fruit BE Rot — blossom end rot (1 = none, 2 = present)

Fruit LOC # — number of locules (1-8 = actual number, 9 = nine or more)

Plant HT and WD — height and width at maturity (cm)

EAR. BLT — 1-4 rating for early blight (1 = none, 2 = slight, 3 = moderate, 4 = severe)

Overall Rating — 1-9 rating (1 = least desirable, 9 = most desirable)

For further information call:

612-373-1102 for results from Becker (Sand Plain Experiment Station) and Excelsior (Horticulture Research Center)

218-327-1790 for results from Grand Rapids (North Central Experiment Station)

612-589-1711 for results from Morris (West Central Experiment Station)

507-835-3620 for results from Waseca (Southern Experiment Station)

TOMATOES—1980 TRIALS

Location—Becker

REPLICATED TRIALS

Variety	Mature Date	Yield					Fruit Characteristics							Plant			Overall Rating
		(Lbs/Plant)		Ton/Acre	Fruit/Plant	Weight/Fruit	Shape	Crax	Grn. Sh.	BE Rot	LOC #	HT	WD	EAR. BLT			
		Early	Total														
Cherry Grondo	8/15	16.3	16.7	20.2	373	.04	5	1.5	1.5	1	2	45	119	2.3	7.3		
Basket Vee	8/15	12.8	15.1	18.2	51	.30	4	1.0	1.5	1	5	46	106	2.8	6.5		
Early Cascade	8/15	14.1	14.9	18.0	83	.13	1	1.0	2.0	1	2	60	164	1.3	7.8		
Blazer	8/15	11.9	13.9	16.8	44	.31	1.5	3.5	2.0	1	4.8	63	140	2.0	4.5		
Duke	8/15	9.1	12.4	15.0	44	.28	2	2.3	1.3	1	4.8	56	83	2.0	6.8		
Full House	8/15	11.1	12.3	14.9	38	.32	1.8	3.0	1.5	1.25	7.5	49	113	3.8	5.5		
Earlirouge	8/15	8.6	8.8	10.6	41	.22	2	3.8	2.0	1	5	46	91	3.8	4.5		
Springset	8/18	16.1	17.2	20.9	51	.44	2	2.3	1.8	1	5	49	106	2.8	7.0		
Jackpot	8/18	12.7	13.9	16.7	44	.32	2	2.8	1.5	1	5.8	59	123	3.3	6.0		
Jet Star	8/25	13.3	16.2	19.6	44	.37	2	2.3	1.0	1	8	74	134	3.3	7.8		
Pik Red	8/25	10.1	12.0	14.5	37	.32	2	1.8	1.3	1	7.5	53	86	3.8	6.0		
Heinz 1350	8/25	6.7	8.5	10.3	44	.20	1.7	2.7	1.3	1	4.7	67	88	3.0	5.3		

OBSERVATIONAL TRIALS

Early Girl	8/15	17.7	19.1	23.1	69	.28	2	4	2	1	5	50	150	1	6
Hybrid 9	8/15	17.5	17.9	21.7	65	.28	2	3	2	1	5	45	110	2	6
Little King	8/15	12.8	16.2	19.6	406	.04	5	2	2	1	2	85	180	1	7
Quick Pick	8/15	13.0	13.7	16.6	59	.23	4	3	2	1	3	60	110	2	6
Hybrid 31	8/15	12.3	12.7	15.3	70	.18	1	2	2	1	3	50	70	1	6
GS-531	8/15	10.2	10.5	12.7	111	.10	5	1	2	1	2	40	80	3	7
Hybrid 10	8/18	16.1	19.9	24.1	66	.30	1	1	1	1	4	55	110	2	7
Hotset	8/18	14.3	19.1	23.1	80	.24	1	4	2	1	4	70	145	3	5
Fuzor F-1	8/18	13.4	14.1	17.0	85	.17	2	4	2	1	4	60	120	3	5
Sweetie	8/18	3.5	5.5	6.6	303	.02	5	1	1	1	2	75	140	1	8
Juice VF	8/25	17.6	19.7	23.8	72	.27	2	4	1	1	9	60	110	2	8
Overpack	8/25	16.7	19.5	23.5	77	.25	2	4	2	1	6	60	130	3	7
Hybrid 980	8/25	11.6	17.0	20.5	40	.43	3	3	1	1	6	65	120	2	5
Super Red	8/25	9.6	16.2	19.6	34	.48	2	3	2	1	8	70	160	3	3
Setmore	8/25	14.1	15.8	19.1	51	.31	2	2	2	1	5	55	100	3	7
Duchess	8/25	11.8	15.3	18.6	47	.32	1	1	2	2	8	55	115	2	6
R 2350	8/25	11.9	14.2	17.2	68	.21	2	4	2	1	5	70	110	2	6
Supersonic	8/25	11.4	13.8	16.7	32	.43	2	3	2	1	6	50	135	3	6
Sunlight	8/25	11.2	13.8	16.7	46	.30	2	4	2	1	7	50	90	2	7
Moreton	8/25	11.3	13.8	16.7	39	.36	2	4	1	1	6	80	120	2	7
Castlex 1035	8/25	7.7	12.3	14.9	35	.35	2	3	2	1	5	55	80	2	7
Castlex 1036	8/25	7.8	11.6	14.1	39	.30	2	3	1	1	9	50	90	2	7
NCL 3061	8/25	7.4	10.6	12.8	21	.51	2	3	1	1	8	50	100	2	5
Castle Hy 101	8/25	4.2	9.9	12.0	24	.42	1	3	1	1	6	65	105	3	7
R 2291	8/25	4.0	7.6	9.2	46	.17	1	2	1	1	2	70	100	3	6
Roadside Red	9/2	11.3	17.4	21.1	53	.33	2	4	2	1	7	60	130	3	6
Flora-Dade	9/2	7.2	10.5	12.7	40	.26	1	1	1	1	4	60	120	2	7
Westover	9/2	6.9	9.3	11.3	28	.34	1	1	2	1	7	60	80	3	6
Big Pick	9/2	5.8	7.7	9.3	23	.34	1	3	1	1	8	70	90	2	7
Castle Hy 105	9/2	3.1	7.0	8.4	17	.40	1	3	1	1	6	60	95	2	7

TOMATOES—1980 TRIALS

Location—Grand Rapids

REPLICATED TRIALS

Variety	Mature Date	Yield					Fruit Characteristics						Plant		Overall Rating
		(lbs./Plant)		Ton/ Acre	Fruit/ Plant	Weight/ Fruit	Shape	Crax	Grn. Sh.	BE Rot	LOC #	HT	WD		
		Early	Total												
Early Temptation	8/13	4.48	9.59	11.60	79.1	.12	1.2	1.2	2.0	1.8	3.8	24	86	4.0	6.0
Sweet N Early	8/16	1.80	8.41	10.17	56.9	.15	1.0	1.0	2.0	1.0	3.8	64	196	2.0	4.8
New Yorker	8/18	3.12	9.81	11.87	44.2	.22	1.8	1.0	1.0	1.0	5.2	27	86	4.0	7.0
Early Cascade	8/22	1.49	8.54	10.34	43.2	.20	1.0	1.2	2.0	1.0	3.2	60	220	2.2	5.5
Early Girl	8/23	1.35	7.34	8.88	26.8	.28	2.2	1.2	2.0	1.2	4.0	66	184	2.0	5.0
Springset	8/24	1.73	11.72	14.18	39.0	.30	2.2	1.8	1.0	1.5	5.2	38	110	3.0	7.2
Juice	8/24	1.27	8.56	10.36	28.2	.30	2.2	2.0	1.0	1.2	5.2	39	131	3.0	7.2
Jackpot	8/25	1.33	8.58	10.38	24.8	.35	2.0	1.0	1.0	1.5	5.8	43	91	3.5	6.2
Jet Fire	8/27	1.31	12.50	15.13	30.5	.41	2.8	1.8	2.0	1.5	6.0	43	120	3.2	7.0
Manitoba	8/28	0.94	11.28	13.64	37.8	.30	2.0	1.5	1.2	2.0	4.8	38	99	3.2	6.8
Spring Giant	8/28	0.74	10.37	12.51	26.9	.39	2.2	2.0	2.0	1.0	5.0	39	116	3.0	7.0

(continued)

Grand Rapids (continued)

Variety	Mature Date	Yield					Fruit Characteristics						Plant		EAR. BLT	Overall Rating
		(Lbs/Plant) Early	(Lbs/Plant) Total	Ton/Acre	Fruit/Plant	Weight/Fruit	Shape	Crax	Grn. Sh.	BE	Rot	LOC #	HT	WD		
Pik Red	9/2	0.42	8.18	9.89	18.3	.45	2.0	1.2	2.0	1.5		5.2	42	108	3.0	6.8
Royal Flush	9/3	0.44	4.56	5.51	9.6	.48	2.0	1.2	2.0	1.0		5.0	51	97	2.8	5.8
Duke	9/4	0.25	4.50	5.44	10.8	.44	1.2	1.0	2.0	1.0		4.5	46	93	2.5	6.5
Heinz 1350	9/4	0.18	3.80	4.59	11.7	.32	3.0	1.0	1.0	1.5		4.8	53	125	2.0	5.0
Tempo	9/6	0.00	3.84	4.64	9.4	.44	1.8	1.5	2.0	1.2		4.2	49	120	2.2	4.8

OBSERVATIONAL TRIALS

Rocket	8/13	6.28	9.80	11.86	85.8	.11	1	2				5	30	82	4	6
Lucy	8/13	2.37	9.45	11.44	37.5	.25	2	2	2	2		4	48	131	2	6
Quick Pick	8/13	1.72	9.00	10.89	36.3	.25	2	2	2	1		6	53	81	3	6
Hybrid #9	8/18	2.75	10.27	12.40	33.5	.31	2	2	1	2		7	23	92	4	8
Bitsy	8/18	3.02	9.42	11.39	66.8	.14	1	1	1	1		4	38	97	3	6
Baron	8/18	1.77	6.82	8.25	23.0	.30	2	1	2	1		7	33	44	4	7
Harold	8/18	1.68	5.96	7.21	14.6	.41	2	4	2	1		5	42	130	2	5
Fuzor	8/22	2.02	13.30	16.09	59.7	.22	2	2	2	1		4	39	134	4	7
Hybrid 31	8/22	2.00	11.70	14.15	54.5	.21	1	1	2	1		4	37	82	3	7
Cabot	8/22	1.83	10.33	12.50	53.2	.19	2	2	1	1		5	18	75	4	7
GS-531	8/22	1.84	9.84	11.90	92.8	.11	1	1	1	1		3	46	90	4	6
Fantastic	8/22	1.35	9.45	11.44	22.8	.41	3	2	2	1		5	39	127	2	6
Vision	8/22	1.24	6.74	8.15	24.8	.27	2	1	1	1		5	44	78	3	7
Ronald	8/22	0.72	5.08	6.15	23.0	.22	1	1	1	2		3	51	184	2	5
Cold Set	8/25	1.60	13.65	16.52	54.2	.25	2	2	1	1		5	39	117	4	8
Cherry Grande	8/25	1.60	12.37	14.96	195.2	.06	5	2	2	1		2	37	144	3	6
Rushmore	8/25	1.73	11.12	13.45	24.8	.45	3	2	1	1		6	49	156	2	7
Cherry Grondo	8/25	1.33	10.38	12.56	161.5	.06	5	2	2	1		3	55	141	2	6
Earlirouge	8/25	1.74	10.10	12.22	35.8	.28	2	2	1	1		4	26	101	4	7
Nova	8/25	1.15	9.25	11.19	79.3	.12	7	1	1	1		2	39	126	2	7
R 2350	8/25	0.95	5.30	6.41	22.5	.24	2	1	2	1		6	31	70	2	6
Setmore	8/29	0.60	12.52	15.14	31.3	.40	2	1	2	1		5	40	111	3	6
Starfire	8/29	1.02	10.38	12.56	25.5	.41	3	2	1	2		9	35	90	4	8
Overpack	8/29	0.53	10.15	12.28	26.7	.38	3	2	2	1		5	68	171	3	6
Big Early	8/29	0.52	9.98	12.08	22.3	.45	3	4	2	1		5	60	152	2	5
Basketvee	8/29	0.45	8.18	9.90	19.8	.41	2	1	1	2		4	28	40	3	8
Cannonball	8/29	0.54	7.16	8.66	16.4	.44	3	4	1	1		5	31	94	3	7
Sheyenne	8/29	0.96	6.70	8.11	25.4	.26	2	2	1	1		6	27	92	3	7
Hybrid 980	8/29	0.62	6.30	7.63	13.7	.46	3	1	2	1		5	47	110	2	5
Little King	8/29	0.78	5.50	6.65	106.2	.05	5	1	2	1		3	68	285	2	4
Contessa	8/29	0.64	5.34	6.46	11.6	.46	3	1	2	1		5	63	151	2	5
Moir	8/29	0.30	5.08	6.14	16.4	.31	2	1	1	1		3	51	94	2	6
Super Fantastic	8/29	0.64	4.82	5.83	10.4	.46	2	2	2	1		5	70	153	2	5
Castlex 1035	8/29	0.25	4.62	5.59	16.0	.29	2	1	2	1		4	54	114	2	4
Lontina	8/29	0.48	3.55	4.30	11.8	.30	1	2	2	2		3	79	230	2	5
Hybrid 10	8/29	0.43	3.32	4.01	8.8	.38	2	1	2	1		4	51	110	2	5
Sweetie	8/29	0.02	0.35	0.43	14.0	.03	5	1	2	1		2	109	275	1	2
Early Bush	9/4	0.00	7.72	9.34	24.3	.32	1	2	2	2		4	49	31	2	7
Hotset	9/4	0.18	5.57	6.74	16.5	.34	2	2	2	1		4	77	195	2	6
Duchess	9/4	0.12	5.07	6.13	12.8	.39	2	1	2	2		5	62	113	3	5
Blazer	9/4	0.32	5.05	6.11	13.0	.39	2	1	1	1		4	38	96	4	7
Roadside Red	9/4	0.35	4.70	5.69	13.3	.35	1	1	2	1		5	66	105	2	6
Sunlight	9/4	0.32	4.67	5.65	11.0	.42	2	1	2	1		4	46	132	2	6
Full House	9/4	0.35	4.43	5.36	9.2	.48	2	2	1	1		5	46	110	2	6
XPH 674	9/4	0.00	3.95	4.78	7.8	.50	2	1	2	1		3	59	122	2	6
Early Boy	9/4	0.33	3.57	4.31	7.0	.51	2	4	2	2		4	51	73	3	6
Castlex 1036	9/4	0.23	2.83	3.43	6.5	.44	2	1	2	2		4	58	119	2	5
Flora Dade	9/4	0.00	2.05	2.48	7.0	.29	1	1	2	2		3	45	113	2	4
R 2291	9/4	0.00	1.28	1.55	7.8	.16	1	1	1	2		3	92	212	2	4
Westover	9/11	0.33	5.48	6.64	13.5	.41	2	1	1	1		6	41	115	3	5
Superrad	9/11	0.00	3.77	4.56	6.5	.58	3	1	2	1		6	79	280	2	4
Castlex 101	9/11	0.00	2.98	3.61	6.6	.45	2	1	2	1		6	44	125	2	5
Big Pick	9/11	0.00	2.18	2.64	6.0	.36	2	1	1	2		3	59	136	2	5
Castlex 105	9/11	0.18	1.77	2.14	4.7	.38	2	1	2	1		4	61	234	2	4
Supersonic	9/11	0.00	1.54	1.87	3.0	.51	2	1	2	1		5	72	141	2	5
Moreton Hybrid	9/11	0.00	1.48	1.79	3.2	.47	2	1	2	2		6	48	87	2	6
Super Steak	9/16	0.00	1.73	2.10	2.8	.61	3	1	2	1		9	92	68	2	3
NCL 3061	9/16	0.00	1.03	1.25	2.0	.52	2	1	1	1		8	70	92	2	5

Grand Rapids (continued)

Variety	Mature Date	Yield					Fruit Characteristics						Plant			Overall Rating
		(Lbs/Plant)		Ton/ Acre	Fruit/ Plant	Weight/ Fruit	Shape	Crax	Grn. Sh.	BE	Rot	LOC #	HT	WD	EAR. BLT	
		Early	Total													
Pik Red	9/2	0.42	8.18	9.89	18.3	.45	2.0	1.2	2.0	1.5	5.2	42	108	3.0	6.8	
Royal Flush	9/3	0.44	4.56	5.51	9.6	.48	2.0	1.2	2.0	1.0	5.0	51	97	2.8	5.8	
Duke	9/4	0.25	4.50	5.44	10.8	.44	1.2	1.0	2.0	1.0	4.5	46	93	2.5	6.5	
Heinz 1350	9/4	0.18	3.80	4.59	11.7	.32	3.0	1.0	1.0	1.5	4.8	53	125	2.0	5.0	
Tempo	9/6	0.00	3.84	4.64	9.4	.44	1.8	1.5	2.0	1.2	4.2	49	120	2.2	4.8	

OBSERVATIONAL TRIALS

Rocket	8/13	6.28	9.80	11.86	85.8	.11	1	2	1	2	5	30	82	4	6
Lucy	8/13	2.37	9.45	11.44	37.5	.25	2	2	2	2	4	48	131	2	6
Quick Pick	8/13	1.72	9.00	10.89	36.3	.25	2	2	2	1	6	53	81	3	6
Hybrid #9	8/18	2.75	10.27	12.40	33.5	.31	2	2	1	2	7	23	92	4	8
Bitsy	8/18	3.02	9.42	11.39	66.8	.14	1	1	1	1	4	38	97	3	6
Baron	8/18	1.77	6.82	8.25	23.0	.30	2	1	2	1	7	33	44	4	7
Harold	8/18	1.68	5.96	7.21	14.6	.41	2	4	2	1	5	42	130	2	5
Fuzor	8/22	2.02	13.30	16.09	59.7	.22	2	2	2	1	4	39	134	4	7
Hybrid 31	8/22	2.00	11.70	14.15	54.5	.21	1	1	2	1	4	37	82	3	7
Cabot	8/22	1.83	10.33	12.50	53.2	.19	2	2	1	1	5	18	75	4	7
GS-531	8/22	1.84	9.84	11.90	92.8	.11	1	1	1	1	3	46	90	4	6
Fantastic	8/22	1.35	9.45	11.44	22.8	.41	3	2	2	1	5	39	127	2	6
Vision	8/22	1.24	6.74	8.15	24.8	.27	2	1	1	1	5	44	78	3	7
Ronald	8/22	0.72	5.08	6.15	23.0	.22	1	1	1	2	3	51	184	2	5
Cold Set	8/25	1.60	13.65	16.52	54.2	.25	2	2	1	1	5	39	117	4	8
Cherry Grande	8/25	1.60	12.37	14.96	195.2	.06	5	2	2	1	2	37	144	3	6
Rushmore	8/25	1.73	11.12	13.45	24.8	.45	3	2	1	1	6	49	156	2	7
Cherry Grondo	8/25	1.33	10.38	12.56	161.5	.06	5	2	2	1	3	55	141	2	6
Earlirouge	8/25	1.74	10.10	12.22	35.8	.28	2	2	1	1	4	26	101	4	7
Nova	8/25	1.15	9.25	11.19	79.3	.12	7	1	1	1	2	39	126	2	7
R 2350	8/25	0.95	5.30	6.41	22.5	.24	2	1	2	1	6	31	70	2	6
Setmore	8/29	0.60	12.52	15.14	31.3	.40	2	1	2	1	5	40	111	3	6
Starfire	8/29	1.02	10.38	12.56	25.5	.41	3	2	1	2	9	35	90	4	8
Overpack	8/29	0.53	10.15	12.28	26.7	.38	3	2	2	1	5	68	171	3	6
Big Early	8/29	0.52	9.98	12.08	22.3	.45	3	4	2	1	5	60	152	2	5
Basketvee	8/29	0.45	8.18	9.90	19.8	.41	2	1	1	2	4	28	40	3	8
Cannonball	8/29	0.54	7.16	8.66	16.4	.44	3	4	1	1	5	31	94	3	7
Sheyenne	8/29	0.96	6.70	8.11	25.4	.26	2	2	1	1	6	27	92	3	7
Hybrid 980	8/29	0.62	6.30	7.63	13.7	.46	3	1	2	1	5	47	110	2	5
Little King	8/29	0.78	5.50	6.65	106.2	.05	5	1	2	1	3	68	285	2	4
Contessa	8/29	0.64	5.34	6.46	11.6	.46	3	1	2	1	5	63	151	2	5
Moir	8/29	0.30	5.08	6.14	16.4	.31	2	1	1	1	3	51	94	2	6
Super Fantastic	8/29	0.64	4.82	5.83	10.4	.46	2	2	2	1	5	70	153	2	5
Castlex 1035	8/29	0.25	4.62	5.59	16.0	.29	2	1	2	1	4	54	114	2	4
Lontina	8/29	0.48	3.55	4.30	11.8	.30	1	2	2	2	3	79	230	2	5
Hybrid 10	8/29	0.43	3.32	4.01	8.8	.38	2	1	2	1	4	51	110	2	5
Sweetie	8/29	0.02	0.35	0.43	14.0	.03	5	1	2	1	2	109	275	1	2
Early Bush	9/4	0.00	7.72	9.34	24.3	.32	1	2	2	2	4	49	31	2	7
Hotset	9/4	0.18	5.57	6.74	16.5	.34	2	2	2	1	4	77	195	2	6
Duchess	9/4	0.12	5.07	6.13	12.8	.39	2	1	2	2	5	62	113	3	5
Blazer	9/4	0.32	5.05	6.11	13.0	.39	2	1	1	1	4	38	96	4	7
Roadside Red	9/4	0.35	4.70	5.69	13.3	.35	1	1	2	1	5	66	105	2	6
Sunlight	9/4	0.32	4.67	5.65	11.0	.42	2	1	2	1	4	46	132	2	6
Full House	9/4	0.35	4.43	5.36	9.2	.48	2	2	1	1	5	46	110	2	6
XPH 674	9/4	0.00	3.95	4.78	7.8	.50	2	1	2	1	3	59	122	2	6
Early Boy	9/4	0.33	3.57	4.31	7.0	.51	2	4	2	2	4	51	73	3	6
Castlex 1036	9/4	0.23	2.83	3.43	6.5	.44	2	1	2	2	4	58	119	2	5
Flora Dade	9/4	0.00	2.05	2.48	7.0	.29	1	1	2	2	3	45	113	2	4
R 2291	9/4	0.00	1.28	1.55	7.8	.16	1	1	1	2	3	92	212	2	4
Westover	9/11	0.33	5.48	6.64	13.5	.41	2	1	1	1	6	41	115	3	5
Superrred	9/11	0.00	3.77	4.56	6.5	.58	3	1	2	1	6	79	280	2	4
Castlex 101	9/11	0.00	2.98	3.61	6.6	.45	2	1	2	1	6	44	125	2	5
Big Pick	9/11	0.00	2.18	2.64	6.0	.36	2	1	1	2	3	59	136	2	5
Castlex 105	9/11	0.18	1.77	2.14	4.7	.38	2	1	2	1	4	61	234	2	4
Supersonic	9/11	0.00	1.54	1.87	3.0	.51	2	1	2	1	5	72	141	2	5
Moreton Hybrid	9/11	0.00	1.48	1.79	3.2	.47	2	1	2	2	6	48	87	2	6
Super Steak	9/16	0.00	1.73	2.10	2.8	.61	3	1	2	1	9	92	68	2	3
NCL 3061	9/16	0.00	1.03	1.25	2.0	.52	2	1	1	1	8	70	92	2	5

TOMATOES—1980 TRIALS

Location—Morris

TOMATO - REPLICATED PLOT

WCES - MORRIS - 1980

Variety	M Date	Yield		Fruit								Plant			
		(Lbs/Plant)		Tons Acre	Number/ Plant	Wt/ Fruit	Shape	Color	Grn.Sh.	B.E.	Rot	Locule	Ht	Spread	E.Bl.
		Early	Total												
X 256	8-8	3.21	11.91	14.40	59.0	.20	1	1	1	1	5	72	210	2	
Early Girl	8-8	4.28	11.51	13.92	49.0	.23	3	2	1	1	5	62	199	1	
Hytop	8-12	4.83	10.88	13.17	34.0	.32	2	2	1	1	6	60	211	2	
Ultra Girl	8-12	5.21	14.84	17.94	41.0	.36	2	2	1	1	7	59	192	2	
Big Early	8-15	6.98	14.87	17.99	30	.49	2	3	1	1+	6	60	226	2	
Fantastic	8-15	4.04	10.29	12.45	32	.32	2	3	1	1	7	57	200	2	
Floramerica	8-15	5.97	13.67	16.56	37	.37	2	1	1	1	5	51	133	2	
Rushmore	8-15	4.17	13.28	16.02	36	.37	2	1	1	1	7	73	213	2	
Duke	8-15	4.18	10.29	12.42	30	.33	2	2	1	1	6	53	148	2	
Pik Red	8-15	4.41	9.55	11.56	25	.37	2	2	1	1	8	50	125	2	
Americana	8-15	3.51	7.33	8.88	19	.39	2	3	1	1	7	54	138	2	
X 86	8-15	7.10	14.16	17.16	38	.37	2	2	1	1	7	51	138	1	

TOMATOES - OBSERVATION

WCES - MORRIS - 1980

Fuzor	8-1	4.82	16.60	20.08	91.2	1.8	2	3	1	1		5	45	202	1
GS531		5.80	13.35	16.15	147.7	.09	1	1	1	1		3	32	100	1
Hy 31		6.77	11.33	13.72	57.5	.20	4	1	1	1		3	25	92	1
Early Cascade		4.00	9.27	11.21	50.8	.18	4	1	2	1		3	55	158	1
Cherry Grondo		6.78				.05	5	1	1	1		3	32	142	1
Little King		1.30				.04	5	3	1	1		2	61	223	1
Sweetie		.12				.02	5	1	1	1		2	75	159	1
Hy 980	8-8	4.15	18.62	22.52	46.7	.40	2	3	1	1		9	57	162	1
Sun Up		8.03	17.40	21.05	66.5	.26	2	1	1	1		6	53	104	2
R 2350		4.15	13.75	16.64	45.8	.30	2	1	1	1		6	52	179	1
The Juice		5.36	10.50	12.70	41.2	.25	2	1	1	1		6	44	122	2
Vee Pro		5.35	10.42	12.61	57.5	.18	7	1	1	1		3	39	118	1
Heinz 1350		5.90	10.20	12.34	38.3	.27	2	1	1	1		6	52	130	3
Hot Set		3.66	9.72	11.76	49.8	.20	1	1	1	2		4	62	220	2
Jet Star		5.90	9.68	11.71	24.6	.39	2	1	1	1		6	60	148	2
Saladette		4.94	9.20	11.13	72.8	.13		1	1	1		3	38	107	2
Basketvee		3.40	9.17	11.09	29.2	.31	6	1	1	1		7	30	142	1
Spring Set		5.62	8.92	10.79	36.8	.24	2	1	1	1		6	43	120	2
Set More		4.54	8.90	10.77	26.6	.33	2	3	1	1		5	60	140	2
Hy 9		3.48	8.72	10.55	29.7	.29	3	1	1	1		6	31	91	2
Quick Pick		4.10	8.62	10.43	36.8	.23	2	3	1	1		3	70	230	1
Moreton		3.84	7.80	9.44	23.8	.33	2	3	1	1		6	47	146	2
Earlirouge		3.72	7.27	8.79	35.8	.20	2	3	1	1		5	45	120	4
Castlex 1036		3.55	6.13	7.42	17.0	.36	2	3	1	1		4	61	182	2
Over Pack		3.48	5.23	6.33	17.7	.30	2	2	1	1		8	65	180	2
R 2291		1.22	2.60	3.14	18.3	.14	1	1	1	1		2	68	221	1
Redglow	8-15	6.93	20.03	24.24	51.2	.39	2	3	1	1		8	86	197	2
Supersonic		4.25	13.55	16.40	31.3	.43	2	1	1	1		4	74	156	1
Crimsonvee		5.33	13.07	15.81	53.8	.24	7	1	1	1		4	43	93	1
Spring Giant		5.65	12.75	15.43	38.7	.33	1	2	1	1		5	57	123	2
Roadside Red		4.60	12.33	14.92	40.7	.30	2	1	1	1		6	76	135	1
Big Pick		2.53	11.37	13.75	26.2	.43	2	1	1	1		5	76	200	2
Super Sioux		4.23	10.75	13.01	30.0	.36	2	2	1	1		5	53	162	1
Early Red Chief		4.37	10.72	12.97	34.8	.31	2	1	1	1		7	66	186	2
Super Red		5.32	10.04	12.15	21.6	.46	2	1	1	1		6	74	230	1
Red King		4.80	9.85	11.92	33.8	.29	2	2	1	1		6	68	115	2
Blazer	8-15	4.90	8.70	10.52	23.8	.37	2	1	1	1		8	45	103	2
West Over		2.96	7.56	9.15	26.2	.29	4	1	1	1		6	42	120	2
Hy 10		2.82	7.40	8.95	23.7	.31	2	2	1	1		6	55	165	1
Jackpot		2.82	7.28	8.81	23.5	.31	2	1	1	1		9	57	118	2
Castlex 1035		2.45	6.82	8.25	22.0	.31	1	1	1	1		5	60	131	1
Red Top		2.03	6.65	8.05	52.7	.31	7	1	1	1		2	34	125	1
Sunlight		3.15	6.62	8.00	16.8	.39	2	1	1	1		7	52	178	2
Kosei 51		2.22	4.62	5.59	17.7	.26	2	1	1	1		6	52	163	1
Flora Dade		2.30	4.47	5.41	14.2	.32	1	1	1	1		5	81	180	1
Full House	8-18	2.74	7.92	9.58	23.2	.34				1			52	122	2
Duchess		4.04	6.92	8.38	24.8	.28	2	3	1	1		9	64	143	2
Tiny Tim		1.53				.02	1	1	1	1		2	23		2
Caste Hy 101	8-21	2.35	4.52	5.47	12.2	.37	4	1	1	1		9	48	135	1
Big Boy	8-25	6.98	10.48	12.68	16.7	.63	2	1	1	1		9	78	206	1
NCL 3061		1.75	8.42	10.18	17.7	.48	6	3	1	2		7	63	161	1
Red Heart		2.22	6.78	8.21	12.8	.53	2	1	1	1		6	83	217	1
Castle Hy 105		1.15	4.85	5.87	11.8	.41	2	2	1	1		9	75	206	1

TOMATOES—1980 TRIALS

Location—Waseca

REPLICATED TRIALS

Variety	Mature Date	Yield					Fruit Characteristics							Plant			Overall Rating
		(Lbs/Plant)		Ton/Acre	Fruit/Plant	Weight/Fruit								HT	WD	EAR. BLT	
		Early	Total				Shape	Crax	Grn.	Sh.	BE	Rot	LOC #				
Cherry Grondo	8/4	3.0	15.6	18.9	253	.06	1	1	1	1	2	24	101	1	8.8		
Earlirouge	8/7	4.5	13.2	16.0	40	.34	1	3.5	1	1	6.5	31	103	3	5.5		
Early Cascade	8/7	3.1	10.9	13.2	51	.22	4	1	1.5	1	2.8	44	143	1	7.3		
Basket Vee	8/11	6.6	18.0	21.8	40	.46	3.8	2	1	1	5	35	136	2	5.8		
Jackpot	8/11	4.6	11.5	13.9	21	.54	1.3	3.5	1	1	6	44	134	2	6.8		
Springset	8/15	6.8	23.7	28.6	75	.32	1	3	1	1	4.8	36	118	1	6.8		
Jet Star	8/15	6.6	22.9	27.7	42	.55	2	1	1	1	6.3	60	146	1	6.3		
Pik-Red	8/15	4.5	13.0	15.7	25	.54	1.5	1	1	1	6.3	51	85	2	6.3		
Blazer	8/15	3.6	10.6	12.8	22	.49	1.5	2	1	1	7.8	45	120	1	6.3		
Duke	8/20	5.0	16.9	20.5	31	.54	1.3	1.5	1	1	4.8	50	120	1	6.5		
Full House	8/22	4.5	17.3	20.9	35	.50	1	2	1	1	5.8	48	136	1	5.8		
Heinz 1350	8/22	3.5	11.7	14.2	38	.31	1.5	1	1	1	5.5	55	119	1	5.8		

OBSERVATIONAL TRIALS

Little King	8/4	2.9	11.4	13.8	167	.04	1	4	2	1	2	50	160	1	5
GS-531	8/7	5.9	17.9	21.7	147	.12	4	1	1	1	2	25	80	3	7
Hybrid 31	8/11	10.9	21.3	25.8	96	.22	1	1	2	1	3	25	130	2	7
Fuzor F-1	8/11	4.0	18.5	22.4	79	.23	1	1	2	1	3	30	105	1	7
Hybrid 9	8/11	8.0	15.1	18.3	44	.34	1	4	2	2	7	40	55	3	4
Early Girl	8/11	3.0	15.1	18.3	51	.30	1	3	2	1	5	50	145	1	5
Hotset	8/11	3.7	9.4	11.4	93	.10	1	4	1	1	8	55	150	1	3
R 2350	8/18	16.8	31.7	38.4	129	.25	1	4	1	1	8	25	130	1	6
Juice VF	8/18	11.0	28.2	34.1	95	.30	1	2	1	2	5	40	120	3	7
Setmore	8/18	8.5	23.8	28.8	61	.39	1	2	1	1	5	40	110	1	7
Overpack	8/18	7.3	22.8	27.6	46	.49	1	4	1	1	4	45	130	1	6
Moreton	8/18	5.3	20.3	24.5	48	.42	1	4	1	1	7	65	125	1	5
Hybrid 10	8/18	6.5	19.8	24.0	52	.38	1	4	1	1	4	60	145	1	3
Hybrid 980	8/18	9.6	15.8	19.1	65	.25	2	3	1	1	4	60	115	1	5
Quick Pick	8/18	4.6	13.9	16.8	45	.31	1	2	1	1	4	55	145	1	7
Sweetie	8/18	2.8	8.9	10.8	354	.03	1	3	1	1	3	105	165	1	5
Duchess	8/22	7.7	25.8	31.2	53	.49	2	1	1	1	8	40	140	1	7
Big Pick	8/22	5.6	23.8	28.7	49	.49	1	1	1	1	5	55	120	1	4
Castle Hy 101	8/22	21.8	21.8	26.4	40	.55	1	1	1	1	5	55	130	1	6
Supersonic	8/22	5.5	21.5	26.0	38	.56	2	1	1	1	6	50	150	1	6
Castlex 1036	8/22	5.8	20.9	25.3	45	.47	1	1	1	1	5	60	105	1	6
Roadside Red	8/22	7.3	20.6	24.9	57	.36	1	1	1	1	6	55	160	1	7
Flora-Dade	8/22	4.1	18.6	22.4	49	.38	1	1	1	1	4	40	80	1	5
Sunlight	8/22	4.2	16.1	19.4	31	.52	2	1	1	1	6	55	150	1	5
Castlex 1035	8/22	5.7	14.1	17.0	39	.36	1	1	1	1	3	55	105	1	6
Westover	8/22	4.7	11.6	14.0	24	.48	1	1	1	1	5	65	115	1	7
Super Red	8/22	5.0	7.1	8.6	38	.19	2	1	1	1	7	45	160	1	6
Castle Hy 105	8/26	3.8	10.7	12.9	20	.54	1	1	1	1	5	75	115	1	5
NCL 3061	8/27	13.4	13.4	16.2	34	.40	1	3	1	1	4	60	125	2	8
R 2291	8/27	10.0	10.0	12.1	51	.20	1	2	2	1	2	50	150	1	6



3 1951 D01 921 139 8

TOMATOES—1980 TRIALS

Location—Excelsior (Horticulture Research Center)

OBSERVATIONAL TRIALS ONLY

Variety	Mature Date	Yield				Weight/ Fruit	Fruit Characteristics							Plant			Overall Rating
		(Lbs/Plant)		Ton/ Acre	Fruit/ Plant		Shape	Crax	Grn.	Sh.	BE	Rot	LOC #	HT	WD	EAR. BLT	
		Early	Total														
Little King	8/4	.6	2.6	3.1	61	.04	1	1	1	1	2	53	183	2	8		
Cherry Grondo	8/11	1.2	5.8	7.0	109	.05	1	4	1	1	2	29	90	2	7		
Early Girl	8/11	1.3	3.9	4.8	14	.29	2	2	1	1	5	42	128	3	4		
GS-531	8/14	1.0	2.3	2.7	15	.15	4	1	1	1	3	24	64	4	5		
Early Cascade	8/19	1.6	12.2	14.7	63	.19	7	1	1	1	2	30	98	2	8		
Hotset	8/19	1.1	11.2	13.6	44	.26	1	2	1	1	3	63	105	3	4		
Hybrid 9	8/19	4.6	11.1	13.4	32	.34	2	1	1	1	3	40	94	4	7		
Hybrid 31	8/19	1.9	6.1	7.4	27	.23	2	1	1	1	4	31	90	4	7		
Sweetie	8/19	.3	3.2	3.9	182	.02	5	4	1	1	2	66	112	1	4		
Quick Pick	8/22	3.6	14.0	17.0	50	.28	4	3	1	1	2	56	116	2	3		
Juice VF	8/22	1.9	11.6	14.0	37	.32	2	2	1	1	4	31	100	2	3		
Earlirouge	8/22	2.1	8.3	10.0	47	.18	2	3	1	1	5	39	88	3	4		
R 2350	8/26	2.0	14.9	18.0	56	.27	2	3	1	1	7	32	133	4	7		
Springset	8/26	2.3	10.7	12.9	33	.32	2	1	1	1	7	39	102	3	6		
Hybrid 10	8/26	2.2	10.1	12.2	27	.38	2	4	1	1	5	31	116	2	6		
Flora-Dade	8/26	1.3	6.9	8.3	21	.33	4	1	1	1	4	42	108	2	5		
Fuzor F-1	8/26	1.1	4.8	5.8	22	.22	1	1	2	1	3	46	121	3	4		
Roadside Red	8/29	2.2	8.1	9.8	23	.35	1	4	1	1	6	43	139	2	7		
Full House	9/2	8.0	21.7	26.2	43	.51	2	3	1	1	6	52	99	2	3		
Overpack	9/2	8.4	15.2	18.4	36	.42	1	1	1	1	6	33	111	2	5		
Big Pick	9/2	8.4	14.8	18.0	35	.43	1	1	1	1	3	65	200	2	7		
Basket Vee	9/2	3.6	7.0	8.4	21	.33	4	4	1	1	5	16	104	3	4		
Moreton	9/5	5.9	15.6	18.9	41	.38	2	3	1	1	5	39	158	2	7		
R 2291	9/5	5.9	12.9	15.7	57	.23	1	4	1	1	2	48	129	1	2		
Heinz 1350	9/5	8.1	11.0	13.3	37	.30	3	1	1	1	5	49	124	2	5		
Jet Star	9/5	1.9	10.9	13.2	21	.52	2	1	1	1	6	54	81	2	7		
Setmore	9/5	1.1	10.2	12.3	24	.43	1	3	1	1	5	37	120	3	3		
Jackpot	9/5	1.4	9.4	11.4	19	.50	2	3	1	1	6	36	89	3	7		
Supersonic	9/5	4.3	6.4	7.8	12	.52	2	3	1	1	4	55	107	2	5		
Duke	9/8	5.6	5.6	6.7	14	.41	2	3	1	1	5	27	87	3	5		
Castle Hy 101	9/10	2.1	14.6	17.7	29	.51	2	3	1	1	7	51	122	2	6		
Pik-Red	9/10	5.5	13.0	15.8	33	.39	2	3	1	1	5	46	98	3	7		
Westover	9/10	5.3	12.8	15.4	27	.47	1	3	1	1	6	26	132	2	5		
NCL-3061	9/10	8.6	10.6	12.9	22	.48	2	3	1	1	6	58	193	2	7		
Super Red	9/10	2.6	10.5	12.7	20	.51	2	3	2	2	4	43	94	1	4		
Hybrid 980	9/10	9.4	9.4	11.3	19	.49	3	3	2	1	9	38	125	2	4		
Blazer	9/10	4.6	8.5	10.3	21	.40	2	3	1	1	5	37	104	2	7		
Sunlight	9/10	6.8	6.8	8.3	16	.42	2	1	1	1	5	47	107	3	8		
Duchess	9/10	4.4	5.3	6.5	14	.40	2	3	2	1	9	27	125	3	7		
Castlex 1035	9/10	3.0	4.3	5.2	12	.36	2	3	1	1	6	41	110	3	3		
Castlex 1036	9/15	3.8	4.4	5.2	11	.40	2	1	2	1	6	41	90	4	2		
Castle Hy 105	9/15	1.8	3.6	4.4	10	.36	1	3	1	1	5	55	100	2	5		

The information given in this publication is for educational purposes only. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by the Minnesota Agricultural Extension Service is implied.

Issued in furtherance of cooperative extension work in agriculture and home economics, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Norman A. Brown, Director of Agricultural Extension Service, University of Minnesota, St. Paul, Minnesota 55108. The University of Minnesota, including the Agricultural Extension Service, is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

15 cents